Operating instructions

for system users

VIESMANN

Heating system with
weather-compensated digital boiler and heating circuit control

VITOTRONIC 200
VITOTRONIC 300

Vitotronic 200, type KW2

Vitotronic 300, type KW3

5592 363 GB 7/2002

Please keep safe

For your safety

Please follow these safety instructions closely to prevent accidents and material losses.

If you smell gas
- Do not smoke! Do not use naked flames or cause sparks (e.g. by switching lights or electrical appliances on and off).
- Open windows and doors.
- Close the gas shut-off valve.
- Notify your heating engineer/ installation contractor from outside the building.
- Observe the safety regulations of your gas supplier (see gas meter) and of your heating engineer (see commissioning/training report).

In an emergency
- Immediately isolate the mains electrical supply, e.g. by removing a separate mains fuse or by means of a mains electrical isolator (unless you smell gas).
- Close the shut-off valves of the main fuel lines.
- In case of fire, use an appropriate fire extinguisher.

Work on the equipment
Installation, initial start-up, inspection, maintenance and repairs must only be carried out by a competent person (heating engineer/installation contractor).

Before working on the equipment/ heating system, isolate the mains electrical supply (e.g. by removing a separate mains fuse or by means of a mains electrical isolator) and safeguard against unauthorised reconnection.

When using gas as fuel, also close the shut-off valve and safeguard against unauthorised re-opening.

Installation of additional components
The installation of additional components which have not been tested together with the boiler can adversely affect the boiler function.
Our warranty does not cover and we accept no liability for damage caused by the installation of such components.

Boiler room conditions
- Do not permit air pollution by halogenated hydrocarbons (e.g. as contained in aerosols, paints, solvents and cleaning agents).
- Do not use rooms with high levels of dust.
- Do not use rooms with permanently high levels of humidity.
- The room should be frost protected
- Max. ambient temperature 35 °C.
- Ensure good ventilation and do not close or obstruct any vents (where provided).

Notice of completion

The user of any combustion equipment must notify the local chimney sweep within four weeks of completion (in Germany).

5592 363 GB

Index

Introductory information
For your safety ... 2
Notice of completion ... 2

Quick start
Where to find the controls ... 4
Your heating system is pre-set at the factory ... 5
Summary of controls and indicators ... 6
Heating circuit selection – before adjustments and scanning ... 9
Selecting the heating program (summer, winter) ... 10
Changing the room temperature (day and night temperature) ... 11
Scanning temperatures and operating conditions ... 12

Utilising the Comfort function
Setting up the party mode ... 13
Activating economy mode ... 14

Start-up/shutdown
Starting the heating system ... 15
Shutting down the heating system ... 16

Modifying and scanning time programs
General notes ... 17
Central heating ... 18
DHW heating and DHW circulation pump ... 20

Settings
Changing the DHW temperature ... 23
Adjusting the economy mode for holiday periods ... 24
Changing date and time ... 26
Selecting the required language ... 27
Modifying the boiler heating characteristics ... 28

What to do if ...
Special displays ... 31
Diagnosis and troubleshooting ... 32

Repairs ... 37

Energy saving tips ... 39

Key word index ... 40

5592 363 GB

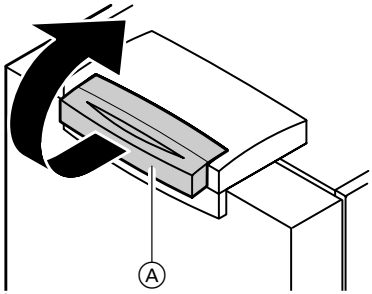
Where to find the controls

You can change all settings for your heating system centrally at the control unit and its integral programming unit.

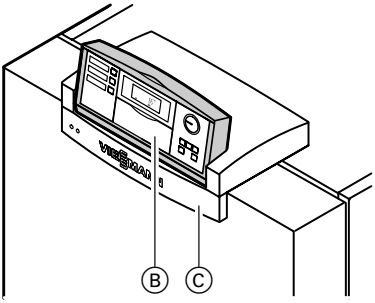
You may also make such changes on the remote control unit, if your system is equipped accordingly.

Remote control operating instructions

Please observe particularly the chapter "Special displays" in these instructions.



The control unit is located in a "drawer".
To open, pull the programming unit forward, flip it up and lock it in a position where you can clearly read the details in the display window.



Ⓐ Programming unit
Ⓑ Programming unit flap
Ⓒ Hinged cover

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Your heating system is pre-set at the factory

The control unit is preset at the factory for standard operation. Your heating system is now ready to operate.
You may change the factory settings in accordance with personal requirements.

Day of the week and time (CET)
These were set up in the factory. The system automatically changes over between summer and winter.

Heating program
This is set to "Heating and DHW", i.e. central heating and DHW are operated (if a DHW cylinder is installed) in accordance with the programmed times.

Time programs
Between the hours of 6.00 and 22.00 hrs, the central heating operates with standard room temperatures, and between 5.30 and 22.00 hrs DHW is produced (if a DHW cylinder is installed).

Between 22.00 and 6.00 hrs, central heating operates with a reduced room temperature (set to frost protection, 3 °C).

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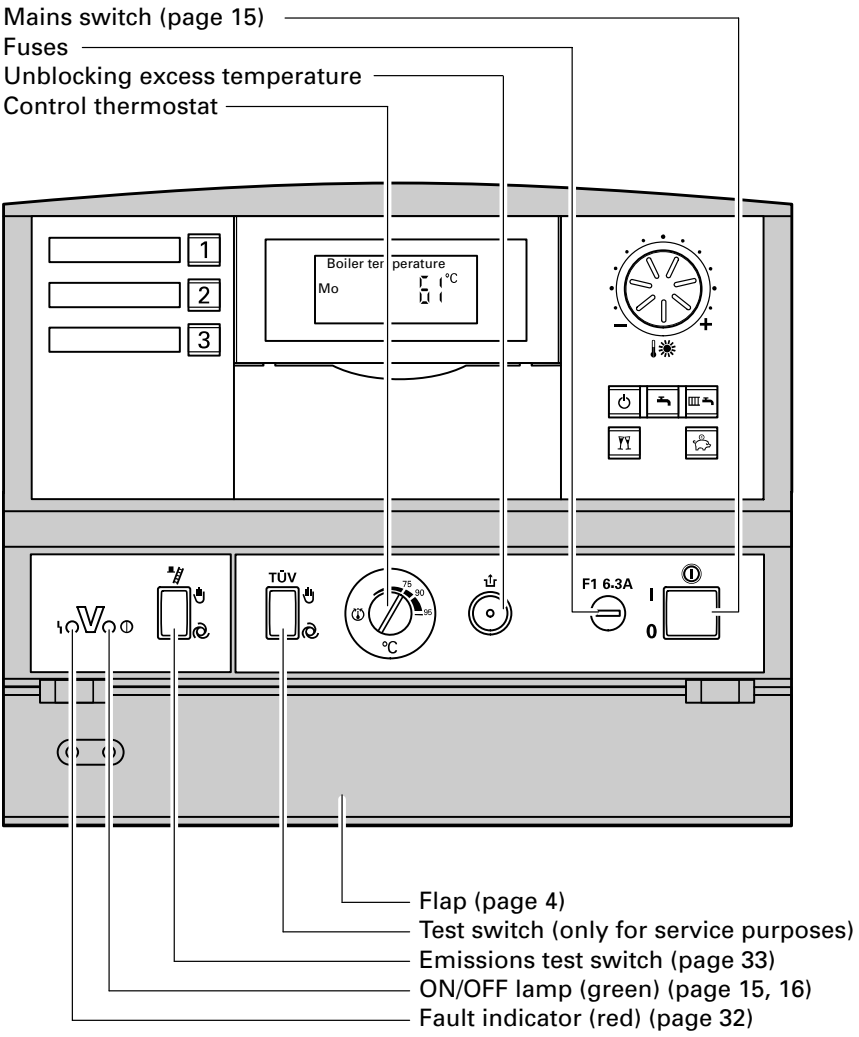
Summary of controls and indicators

Controls with open flap



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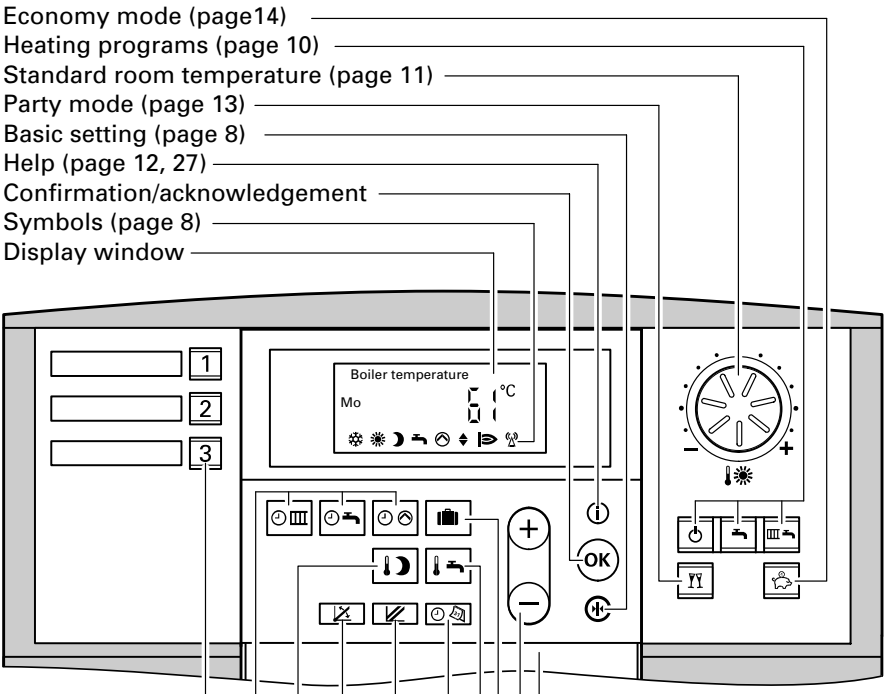
Summary of controls and indicators (cont.)



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Summary of controls and indicators (cont.)

Display window symbols
(these symbols are not always displayed, but appear subject to the system version and operating conditions)

- If frost is likely
- for central heating with standard room temperature
- for central heating with reduced room temperature
- DHW heating, cylinder loading pump running
- Heating circuit pump running
- Mixer "Open"
- Mixer "Closed"
- Burner ON
- Radio clock reception

Display window contrast settings
Open the programming unit flap and press (OK), simultaneously set the contrast using ⊕ or ⊖.

Basic setting
All modified values are returned to their factory settings.

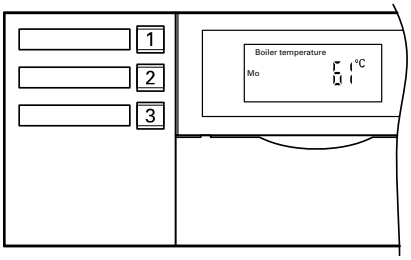
Flashing values
Details which flash in the display indicate that modifications may be made.

Heating circuit selection – before adjustments and scanning

For heating systems with only one heating circuit, the heating circuit selection key 1 and one heating program key are illuminated and you may begin all settings steps.

For heating systems with **two** or **three** heating circuits, select the respective heating circuit before making **any** adjustments or before scanning the heating circuit concerned.
Heating circuit selection key 1: heating circuit 1 without mixer
Heating circuit selection key 2: heating circuit 2 with mixer
Heating circuit selection key 3: heating circuit 3 with mixer (only Vitotronic 300)

Your heating contractor will label each heating circuit individually.



1 or 2 or 3; the following keys will then illuminate:
- Heating circuit selection key
- current heating program (see page 10).
- Party or economy mode, if set up (see page 13 and 14).

If you have not selected the required heating circuit before changing settings, the display window will show "First press key 1 or 2" or "First press key 1, 2 or 3".
You can now begin setting up the selected heating circuit.

Please note:
The key illumination will extinguish after a short time if you make no further changes.

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Selecting the heating program (summer, winter)

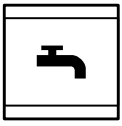
1. 1, 2 or 3; the respective key will then illuminate.

2. Select the heating program with keys , or .

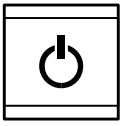
Heating and DHW
Example: *winter and transitional periods*
- Central heating with alternate standard and reduced room temperature (frost protection) acc. to programmed times
- DHW heating (if a DHW cylinder is installed) and DHW circulation pump (if installed) ON acc. to set times
- Frost protection for boiler and DHW cylinder

Please note:
If this key is illuminated,
- *symbol "☼" appears, if central heating with standard room temperature is active,*
- *symbol "☽" appears, if central heating operates with a reduced room temperature higher than 3 °C,*

(see page 11).



Only DHW
Example: *Summer*
- No central heating
- DHW heating (if a DHW cylinder is installed) and DHW circulation pump (if installed) ON acc. to set times
- Frost protection for boiler and DHW cylinder



Standby mode
- No central heating
- No DHW heating
- Frost protection for boiler and DHW cylinder

Please note:
The circulation pumps are briefly started every 24 hours to prevent them from seizing up.

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Room temperature

With the "Heating and DHW" program, the central heating operates alternately with "Standard room temperature" and "Reduced room temperature" acc. to set times (see page 17).

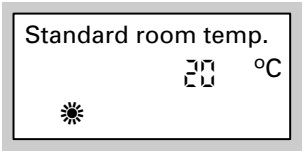
Change the standard room temperature (day temperature)

Example:
For those times when you are at home and wish to have a comfortable ambience.

Basic factory setting:
20 °C from 6.00 until 22.00 hrs.
"Standard room temperature" is adjustable from 3 to 37 °C.

1. [1], [2] or [3]; the respective key will then illuminate.

2. Set the required temperature with the rotary selector „🌡☀".



Change the reduced room temperature (night temperature)

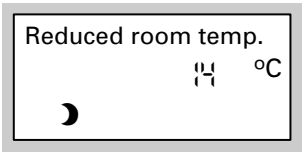
Example
For night and other times when you are not in the living area.

Basic factory setting:
Frost protection 3 °C
from 22.00 until 6.00 hrs.
"Reduced room temperature" is adjustable from 4 to 37 °C.

Press the following keys:

1. [1], [2] or [3]; the respective key will then illuminate.

2. [🌡☽] for "Reduced room temp."; the current temperature will flash.



"Frost protection" appears in the display, if temperature 3 has been selected.

3. ⊕/⊖ for the required temperature.

4. OK as confirmation; the temperature no longer flashes and is now saved.

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Scanning temperatures and operating conditions

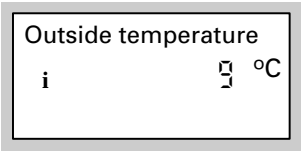
Subject to connected components and settings made, you can scan current temperatures and operating conditions.

- Holiday program with departure and return date, if programmed.
- Outside temperature
- Boiler water temperature
- Flue gas temperature, if a sensor is installed.
- Domestic hot water temperature
- Flow temperature, for heating circuit with mixer.
- Return temperature, for heating circuit with mixer, subject to a sensor being installed.
- Room temperature, if a Vitotrol remote control is installed.
- Hours run of the burner
- Number of burner start-ups
- Fuel consumption subject to the appropriate settings having been made by the heating contractor.
- Time
- Date
- Burner On/Off
- Cylinder loading pump On/Off
- DHW circulation pump On/Off
- Heating circuit pump On/Off
- Mixer open/closed
  for heating circuit with mixer
  0 ≙ Close(d)
  1 to 99 (%)
  100 ≙ Open
- Language

Press the following keys:

1. [1], [2] or [3]; the respective key will then illuminate.

2. ⓘ for **"Outside temperature"**.



3. ⊕/⊖ for further scans.

4. ⓘ to end scanning.

Heating program, scan party or economy mode

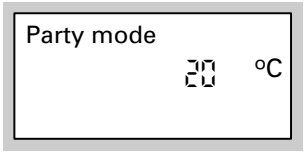
Press heating circuit selection key; the key of the active heating program will illuminate (see page 9).

Setting up the party mode

If you wish to heat and provide DHW (subject to a DHW cylinder being installed) in the short term and independent of the set heating and time program.

Press the following keys:

1. 1, 2 or 3; the respective key will then illuminate.
2. for **"Party mode"**; the party temperature flashes.



3. If you want to change the party temperature:
   ⊕/⊖ for the required temperature.
4. OK as confirmation; the temperature no longer flashes and is now saved.

End party mode

- The party mode ends with the next automatic change to central heating at "Standard room temperature".
- If you want to prematurely terminate party mode, press the heating circuit selection key again and ; the key illumination extinguishes.

Heating DHW once outside the programmed periods

- not in heating program "⏻", and not during holiday program "🧳"
- The DHW temperature must be below the set value (see page 23).

Press the following keys:

1. 1, 2 or 3; the respective key will then illuminate.
2. for **"Party mode"**.
3. OK to confirm; DHW will be heated up.
4. After approx. 10 seconds, press button again.

5592 363 GB

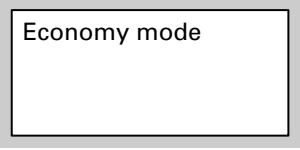
Activating economy mode

If you want to heat briefly in economy mode whilst the heating mode is set to operate at standard room temperature.
In economy mode, the set room temperature will be reduced automatically.
Economy mode is only possible in heating program "🛏" (see page 10).

Activating economy mode

Press the following keys:

1. [1], [2] or [3]; the respective key will then illuminate.
2. [🏠] for **"Economy mode"**.



Terminating economy mode

- The economy mode ends automatically when the central heating is next changed to "Reduced room temperature".
- If you want to prematurely terminate economy mode, press the heating circuit selection key again and [🏠]; the key illumination extinguishes.

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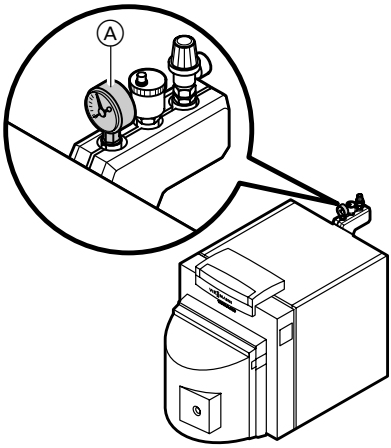
Starting the heating system

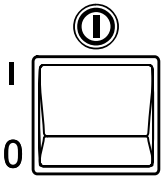
The initial start-up and matching of the control unit to local conditions and the structural characteristics of the building must be carried out by your heating contractor.



1. Check the pressure of your heating system on the pressure gauge Ⓐ:
If the needle is below the red marker, the system pressure is too low – in which case, top up with water or contact your heating engineer.

2. Open the shut-off valves in the oil supply pipes (at the oil tank and filter) or open the gas shut-off valve.

3. Switch on the mains supply, e.g. at a separate fuse or a mains isolator.

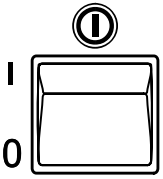


4. Switch on the main ON/OFF switch "⏻"; standby mode is then indicated by the green lamp (ON lamp); shortly after the display will indicate the boiler temperature (see page 6).
Your heating system and, if installed, your remote control unit are now ready to operate.

Shutting down the heating system

If you intend shutting down your heating system for a certain time, e.g. during a summer holiday, change to **Standby mode** (see "Selecting heating program" on page 10).

Shut down your heating system completely, if it will not be needed for longer periods of time (several months).
Before you shut down your heating system for longer periods it would be advisable to contact your local heating contractor.
Where necessary, your contractor can take certain measures, e.g. protecting the system against frost or preserving the heating surfaces.



1. Switch off the main ON/OFF switch "⏻" .
   The green light (ON lamp) extinguishes.

2. Close the shut-off valves in the oil supply pipes (at the oil tank and filter) or the gas shut-off valve, whichever applies.

3. Isolate the system from the mains electricity supply, e.g. by removing a separate fuse or by means of a mains electrical isolator.
   As the system is now voltage free, the heating system has **no** frost protection.

   Please note:
   All settings remain intact.

General notes

You can set time programs for central heating, for DHW heating (subject to a DHW cylinder being installed) and the DHW circulation pump (if installed). The DHW circulation pump ensures that hot water is available at the draw-off points at short notice.
The time program comprises four time phases, i.e.

- for central heating, up to four changes between "Standard room temperature" and "Reduced room temperature" can be programmed.
- DHW heating and DHW circulation pump can be activated/deactivated up to four times per day.

At the factory, phase 1 is set for all weekdays, i.e. in this phase all rooms are heated at standard room temperature, DHW is produced and the DHW circulation pump is activated.

The following keys are allocated to the time programs:

Key	Time program for	Basic factory setting
	Central heating	Standard room temperature: from 6.00 to 22.00 hrs
	DHW heating	On: 5.30 to 22.00 hrs
	DHW circulation pump	On: 5.30 to 22.00 hrs

You can select **identical** time programs for all weekdays or **individual** ones for each weekday.

Take the response time of your heating system into consideration when setting the time programs. Select correspondingly **earlier** start-up and shutdown times.

Central heating

Press the following keys:

1. [1], [2] or [3]; the respective key will then illuminate.

2. [⊙▥] for **"Central heating time program"**.

Please note:
*If you want to **terminate** the time program **early**, press [⊙▥] again and confirm with (OK).*

3. ⊕/⊖ to
"1–7" will be displayed, if you want to set up the same time phases for all weekdays

C H time program
1—7

or
"Mo", **"Tu"** etc. will be displayed, if you want to set different time phases for the displayed weekday.

C H time program
Mo

Please note:
*If different time phases are set for individual weekdays, and you want to set up identical time phases for all weekdays, press (OK) if the display shows **"1–7"**. **All** time phases are returned to their original condition (see page 17).*

4. (OK) for confirmation; **"Central heating time phase 1"** will then be displayed.

Press ⊕ if you want to skip a time phase.

5. (OK) for confirmation; **"Central heating time phase 1 ON"** will then be displayed.

6. ⊕/⊖ for the start time of the heating phase.

7. (OK) for confirmation; **"Central heating time phase 1 OFF"** will then be displayed.

8. ⊕/⊖ for the end time of the heating phase.

9. (OK) for confirmation; **"Central heating time phase 2 ON"** will then be displayed.

10. Proceed for the setting up of the start and end of heating phases 2 to 4 as under points 6 to 9.

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Central heating (cont.)

Scanning time phases

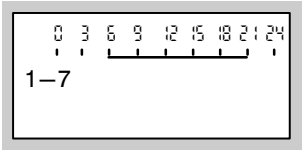
Proceed as per page 18, but without activating ⊕ or ⊖.

Time phase summary

Press the following keys:

1. [1], [2] or [3]; the respective key will then illuminate.

2. [🕘]/ⓘ Press and hold down simultaneously; the set time phases will then be displayed on a linear time graphic.



Deleting time phases

Example:
You want to heat the whole day with reduced room temperature.

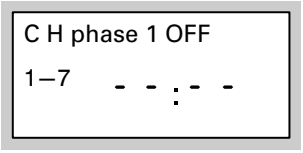
Press the following keys:

1. [1], [2] or [3]; the respective key will then illuminate.

2. [🕘] for **"Central heating time program"**

3. Ⓞ until the required **"Central heating time phase OFF"** is displayed.

4. ⊖ until **"– – : – –"** is displayed for the end time.



5. Ⓞ to confirm, until the boiler temperature is displayed.

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DHW heating and DHW circulation pump

The time program for DHW heating and DHW circulation pump is set to **Automatic mode**, i.e. the DHW heating operates parallel with the time program, but starts 30 minutes earlier.
The DHW circulation pump operates parallel to the DHW heating time program.

Should you not wish to operate in automatic mode, you can also set up **individual** time programs.
If you want to **heat DHW once** outside the set time program, see page 13.

The following explains the setting up of a time program using DHW heating as an example. Set up the DHW circulation pump time program in the same way; also note the table on page 17.

Setting up automatic mode
(if necessary)

Press the following keys:

1. [1], [2] or [3]; the respective key will then illuminate.
2. [⏲] for **"DHW time program"**.
3. ⊕/⊖ for **"Automatic?"**, if "Automatic?" is not already displayed.
4. OK to confirm;
   the display changes to that of the boiler temperature.

Setting up an individual time program

Press the following keys:

1. [1], [2] or [3]; the respective key will then illuminate.
2. [⏲] for **"DHW time program"**.

   Please note:
   If you want to terminate setting up a time program, press [⏲] again and confirm with OK.
3. ⊕/⊖ for **"Individual?"**, if "Individual?" is not already displayed.
4. OK for confirmation.

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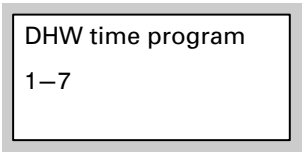
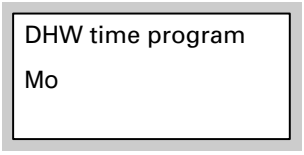
DHW heating and DHW circulation pump (cont.)

5. ⊕/⊖ to
"1–7" will be displayed, if you want to set up the same time phases for all weekdays



or
"Mo", **"Tu"** etc. will be displayed, if you want to set different time phases for the displayed weekday.



Please note:
If different time phases are set for individual weekdays, and you want to set up identical time phases for all weekdays, press ⓞⓚ *if the display shows* **"1–7"**.
All *time phases are returned to their original condition* *(see page 17).*

6. ⓞⓚ for confirmation; **"DHW time phase 1"** will then be displayed.

Press ⊕ if you want to skip a time phase.

7. ⓞⓚ for confirmation; **"DHW phase 1 ON"** will then be displayed.

8. ⊕/⊖ for the start of the DHW phase.

9. ⓞⓚ for confirmation; **"DHW phase 1 OFF"** will be displayed.

10. ⊕/⊖ for the end of the DHW phase.

11. ⓞⓚ for confirmation; **"DHW phase 2 ON"** will then be displayed.

12. Proceed for the setting up of the start and end of DHW phases 2 to 4 as described under points 8 to 11.

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DHW heating and DHW circulation pump (cont.)

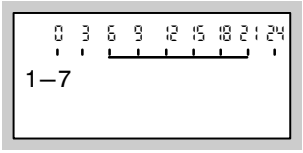
Scanning time phases

Proceed as per page 20, but without activating ⊕ or ⊖.

Time phase summary

Press the following keys:

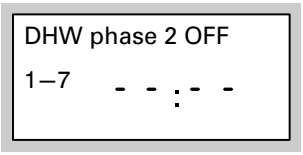
1. [1], [2] or [3]; the respective key will then illuminate.
2. [⏲]/ⓘ Press and hold down simultaneously; the set time phases will then be displayed on a linear time graphic.



Deleting time phases

Press the following keys:

1. [1], [2] or [3]; the respective key will then illuminate.
2. [⏲] for **"DHW time program"**.
3. ⓞⓚ until the required **"DHW phase OFF"** is displayed.
4. ⊖ until **"– – : – –"** is displayed for the end time.



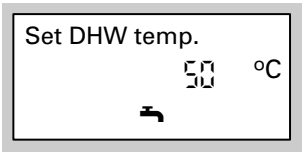
5. ⓞⓚ to confirm, until the boiler temperature is displayed.

5592 363 GB

Changing the DHW temperature

Press the following keys:

1. [🚿] the current temperature will flash.



2. ⊕/⊖ for the required temperature.

3. OK as confirmation; the temperature no longer flashes and is now saved.

Adjusting the economy mode for holiday periods

If you are planning to go on holiday and you want to set your heating system to minimum energy consumption, select the holiday or the standby mode (see "Selecting the heating program" on page 10).

Holiday program

Example:
To protect indoor plants during a winter break and if you want your accommodation to be heated ready for your return from holiday.

- If the operating mode is set to "🛏🚿", the central heating will operate with "Reduced room temperature" during the holiday period (see page 11), but there will be **no** DHW heating.
  The holiday program starts at 0.00 hrs following your day of departure and ends at 0.00 hrs. of the return day, i.e. the set time program for central heating and DHW heating is active on the day of departure and on the return day.
- If the operating mode is set to "🚿", the heating system will **only** be protected against frost during the holiday program.
  DHW will be heated on the day of departure or on the return day in accordance with the set time program.

Please note:
*The control unit is set so that the holiday program applies to **all** heating circuits.*
If you want to make changes, contact your local heating contractor.

5592 363 GB

Adjusting the economy mode for holiday periods (cont.)

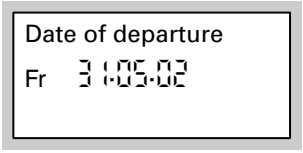
Press the following keys:

1. 🧳 for **"Holiday program"**.

Please note:
Press 🧳 again, if you want to delete the holiday program when setting up.

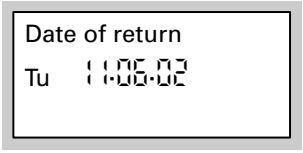
2. OK for **"Departure day"** (current date).

3. ⊕/⊖ for the required departure date.



4. OK to confirm; **"Return date"** (a date following the departure date) will be displayed.

5. ⊕/⊖ for the required return date.



6. OK for confirmation.

7. Setting the temperature during the holiday program:
- Press 🔥.
- Set the required value using ⊕ or ⊖.
- Confirm with OK; the temperature no longer flashes and is now saved.

Please note:
This temperature also applies to the reduced room temperature outside the holiday program.

After the departure date has passed, the display will indicate "Holiday program" and the current date. The display will show the boiler temperature when the return date is reached.

Please note:
Press 🧳 again, if you want to cancel the holiday program early. Confirm "Cancel? Yes" with OK.

5592 363 GB

Changing date and time

Date and time are factory set and may be changed manually.

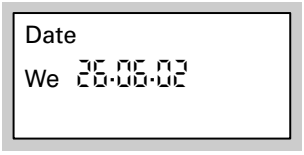
Press the following keys:

1. ⏲ for "**Time**".

2. ⊕/⊖ for the required time.

3. OK to confirm;
"Date" will be displayed.

4. ⊕/⊖ for the required date.



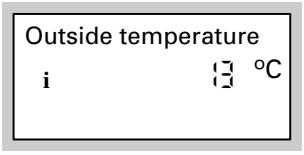
5. OK for confirmation.

Selecting the required language

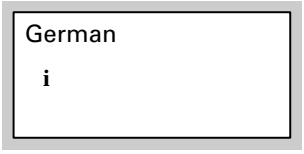
Press the following keys:

1. 1, 2 or 3; the respective key will then illuminate.

2. ⓘ for **"Outside temperature"**.



3. ⊖ for the required language.



4. OK for confirmation.

Modifying the boiler heating characteristics

You can modify the heating characteristics by changing the slope and level of the heating curve, if the room temperature does not meet your requirements over a longer period of the heating season.
[⊿] Heating curve slope (see page 30)
[⊿] Heating curve level (see page 30)

Please observe the modified heating characteristics over a longer period of time, before making further adjustments.
Adjust the room temperature for shorter periods using the rotary selector "🌡☀" or key [🌡] (see "Changing the room temperature" on page 11).

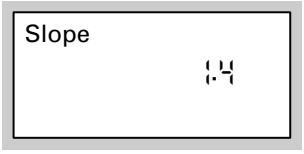
Changing the slope and level

Use table "Modifying heating characteristics if ..." to assist you in making the necessary adjustments, see page 29.

Press the following keys:

1. [1], [2] or [3]; the respective key will then illuminate.

2. [⊿] for **"Slope"**



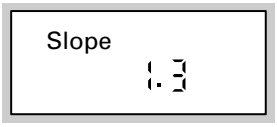
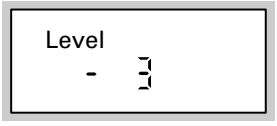
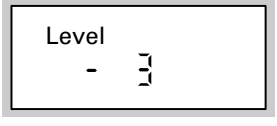
or
[⊿] for **"Level"**.

3. ⊕/⊖ for the required value.

4. (OK) for confirmation.

5592 363 GB

Modifying the boiler heating characteristics (cont.)

Modifying heating characteristics if ...	Check	Example
... the living areas are **too cold** during the **heating season**	Adjust the heating curve **slope** to the **next higher** value	
... the living areas are **too hot** during the **heating season**	Adjust the heating curve **slope** to the **next lower** value	
... the living areas are **too cold** during the **transitional periods** (spring/autumn) and during the **heating season**	Adjust the heating curve **level** to a **higher** value (e.g. +3 K)	
... the living areas are **too hot** during the **transitional periods** (spring/autumn) and during the **heating season**	Adjust the heating curve **level** to a **lower** value (e.g. -3 K)	
... the living areas are **too cold** during the **transitional periods** (spring/autumn), but warm enough during the heating season	Adjust the heating curve **slope** to the **next lower** value, and the **level** to a **higher** value (e.g. +3 K)	
... the living areas are **too hot** during the **transitional periods** (spring/autumn), but warm enough during the heating season	Adjust the heating curve **slope** to the **next higher** value, and the **level** to a **lower** value (e.g. -3 K)	 

5592 363 GB

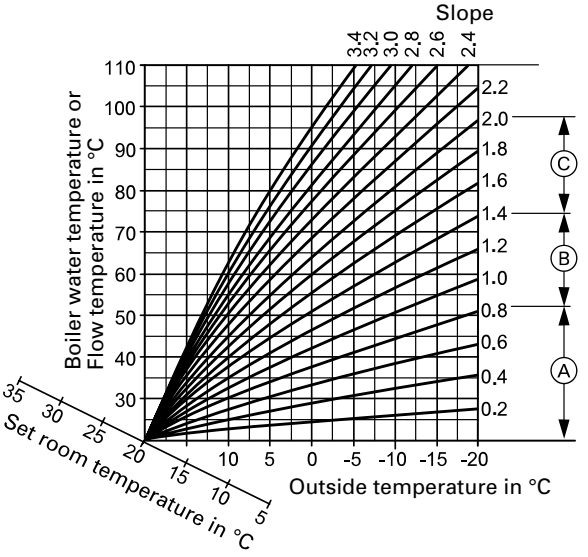
Modifying the boiler heating characteristics (cont.)

For technically-minded system users

Heating curves illustrate the relationship between the outside temperature and the boiler water or the flow temperature. To put it simply: the lower the outside temperature, the higher the boiler water or flow temperature.
The illustrated heating curves apply subject to the following settings:

- "Heating curve level" = 0
  Different level settings shift the curve parallel in a vertical direction.
- "Standard room temperature" = approx. 20 °C.

In the "as delivered condition", the slope is set to = 1.4; the level is set to = 0.



Generally, the heating curve for

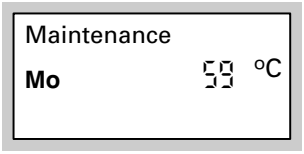
- underfloor heating system lies in the range of Ⓐ
- low-temperature heating systems, in the range of Ⓑ
- and, for heating system with boiler water temperatures above 75 °C, in the range of Ⓒ

Example

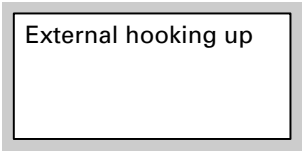
- *well-insulated home in a sheltered position (with radiator heating system): Slope = 1.2*
- *home in an exposed position or with an older heating system (with radiators): Slope = 1.6*

5592 363 GB

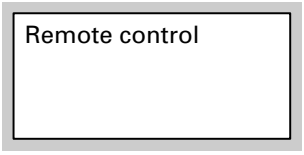
Special displays



Please arrange for your local heating contractor to service your heating system.

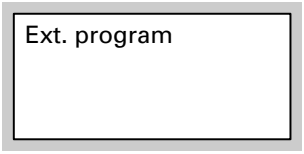


The heating program set at the control unit was changed over by an external device (e.g. control module V).

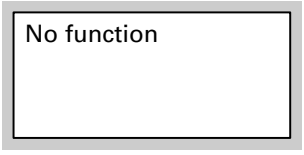


Settings cannot be carried out on the control unit, only on the remote control.

Example
Standard room temperature at the rotary selector " *" can only be adjusted on the remote control.*



The heating program set at the control unit was changed over by the communication interface Vitocom 100.

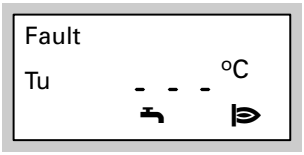


The display flashes if you have pressed a key which has no function.

Example
if no DHW cylinder is connected.

Troubleshooting

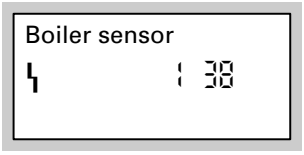
If your heating system has developed a fault, it will be displayed and indicated through the flashing red fault lamp (see page 6).
You can read off the fault code on the display by scanning and notify your heating contractor accordingly.



Press the following keys:

1. ⓘ for fault diagnosis.

Example



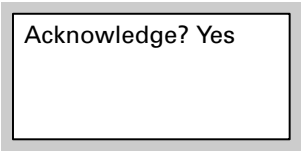
Fault display

Fault number

Sensor description
≙ Plug description

Interruption
or
Short circuit

2. OK for **"Acknowledge"**.



3. ⊕/⊖ for **"Yes"** or **"No"**.
With "Acknowledge? Yes" you confirm that you have noted the fault.

4. OK for confirmation.

Please note:
If the fault has not been rectified, the fault message will be displayed again at 7.00 hrs the following day. The red fault display flashes until the fault has been rectified.

5592 363 GB

Troubleshooting (cont.)

Calling up acknowledged fault message

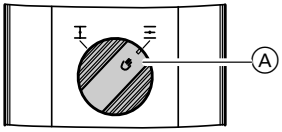
1. ⓞⓚ Press for approx. two seconds.

2. ⊕/⊖ Press for the display of further faults, if several faults persist.

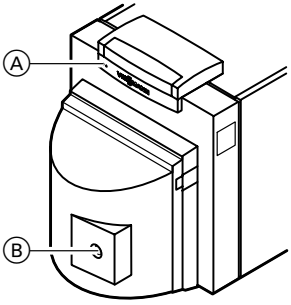
What to do if ...	Cause	Remedy
... the heating system will not operate	The main switch "⏻" on the control unit is switched off	Switch on
	The mains isolator, if installed (outside the boiler room), is switched off	Switch on the mains electrical isolator
	The fuse in the power distribution (domestic mains fuse) or in the control unit has blown	Notify your local heating contractor
... the burner operates, but there is no hot water (only for systems with DHW cylinder)	Control unit incorrectly programmed or set up	Check time programs for DHW heating (page 17 and 20) and the DHW temperature (page 23) and correct, if necessary
	DHW cylinder sensor faulty	Notify your local heating contractor
... the burner is not started or starts irregularly	Control unit fault	After checking with your local heating contractor, the boiler can be temporarily operated with a raised boiler water temperature by changing the emissions test switch "🔧" to "✋" (see page 6); leave the flap open

5592 363 GB

Troubleshooting (cont.)

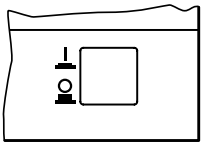
What to do if ...	Cause	Remedy
... the burner is not started or starts irregularly (cont.)	Control unit incorrectly programmed or set up	Check and, if necessary, correct the heating program settings and the programming of the programming unit
	The motorised flue gas damper is faulty (only for gas-fired boilers with atmospheric burners) or the Vitoair draught stabiliser is faulty (only for boilers with pressure jet burners)	Notify your local heating contractor. Change motorised flue gas damper or Vitoair to manual mode: Press the rotary selector Ⓐ on the motor and turn to the limit stop beyond position "|↼|". 
	No fuel	In case of oil/LPG: Check and, if necessary, re-order fuel. In case of natural gas: Open the gas shut-off valve and check with your gas supplier, if necessary.

Troubleshooting (cont.)

What to do if ...	Cause	Remedy
... the burner does not start; the red fault lamp Ⓐ on the control unit flashes and the fault lamp Ⓑ on the burner is illuminated (red)	Burner makes a false start	Restart by pressing the reset button Ⓑ on the pressure jet burner (on the front of the burner hood); on atmospheric burners on the boiler front panel. If the burner does not restart after pressing the reset button, check the points under the heading "Commissioning the heating system", and try another reset. If the burner still fails to start, contact your local heating contractor. 
... it remains cold during the day, but warm at night	Clock set incorrectly	Correct the clock setting (page 26)
	Control unit incorrectly programmed or set up	Check and, if necessary, correct temperatures (page 11), time programs (page 17) or the heating program settings (page 10)

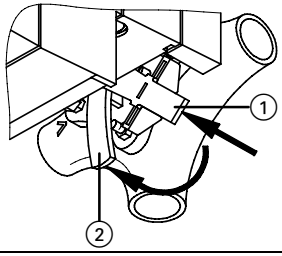
5592 363 GB

Troubleshooting (cont.)

What to do if ...	Cause	Remedy
... the room temperature is too low, when the outside temperature is low	Heating curve incorrectly set	Check and, if necessary, correct the heating curve setting (page 28)
	Control unit incorrectly programmed or set up	Check and, if necessary, correct temperatures (page 11), time programs (page 17) or the heating program settings (page 10)
... rooms remain cold, even though the burner is operating	Clock set incorrectly	Correct the clock setting (page 26)
	Heating program "🚿" or "⏻" are set up (the corresponding key is illuminated)	Set up heating program "🏠🚿" (page 10)
	Only when operating with a DHW cylinder: DHW priority (🚿 in the display)	Wait until the DHW cylinder has been heated up (🚿 extinguishes in the display)
	In conjunction with Vitotronic 300: The mixer motor mains supply is switched off	Switch on mains switch **I** ≙ ON 
... the display flashes "Fault"	Heating system fault	Note the fault and notify your local heating contractor (page 32)
... "No function" appears in the control unit display	The pressed key has no function, e.g. 🕐🚿, if no DHW cylinder is connected	

5592 363 GB

Troubleshooting (cont.)

What to do if ...	Cause	Remedy
... mixer motor installed: the boiler is operating, but the heating circuit stays cold	Mixer motor faulty	Unlock the motor lever ① and manually operate the mixer lever ②. Notify your local heating contractor. 

Care, inspection and maintenance

Inspection and maintenance
Inspection and maintenance of your heating system is prescribed by the Energy Savings Order and DIN 4755, DIN 4756, DIN 1988-8 or local regulations.

Regular servicing of the heating system will ensure trouble-free, energy-efficient and environmentally friendly heating. We strongly recommend you take out an inspection and maintenance contract with your local heating contractor.

Boiler
All boilers have to be cleaned at certain intervals because flue gas temperature and energy losses increase with a rising level of contamination.

You can monitor the flue gas temperature with the flue gas temperature sensor (available as accessory). Monitoring the flue gas temperature can bring incorrect burner settings and the level of boiler contamination to your attention.

5592 363 GB

Care, inspection and maintenance (cont.)

The efficiency of the system will be impaired if the flue gas temperature is excessively high due to contamination of the boiler or incorrect burner adjustment. In this case, it may be necessary to clean the boiler or readjust the burner.
An integral hours run counter records the hours the burner has been in operation.
The longer the hours run, the lower the standby losses (for standard values see VDI 2067).

DHW cylinder
DIN 1988-8 prescribes maintenance and cleaning to be carried out at least two years after commissioning and thereafter in regular intervals. Only a recognised heating contractor should clean the inside of a DHW cylinder and the DHW connections.

For Vitocell 100:
We recommend that the correct function of the sacrificial anode is checked annually by a heating contractor. The anode function can be checked without interrupting the system operation. The heating contractor will check the earth current with an anode tester.
Replace the content of any water treatment equipment (e.g. a lock or injection equipment) in good time, if such equipment is installed in the cold water supply of the DHW cylinder. The same rule applies, if a dirt trap or filter is installed in the cold water supply.
Regularly back-flush and maintain such equipment.

Safety valve (DHW cylinder)
Check the safety valve function every six months by venting or have it checked by your heating contractor. The valve seat may become contaminated (see the valve manufacturer's instructions).

Drinking water filter (if installed)
For reasons of hygiene:
- on non-back-flushing filters, replace the filter element every six months (visual check every two months);
- on back-flush filters, back-flush every two months.

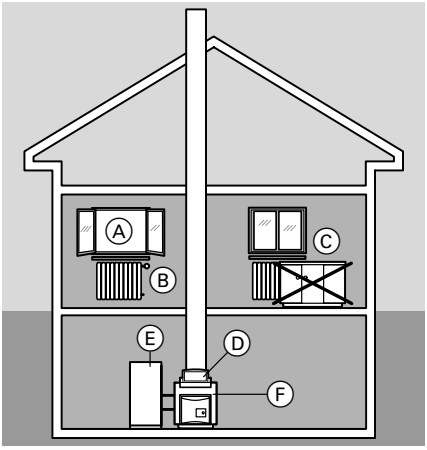
Cleaning
All devices may be cleaned with a commercially available domestic cleaning agent (non-scouring).

Note about disposal
This equipment contains a fitted battery, which contains no harmful substances.
According to regulations regarding batteries, spent batteries should be disposed of at authorised reclamation sites (in Germany).
Only authorised specialists should remove batteries.

5592 363 GB

Energy saving tips

Apart from using a modern heating system, you can also save additional energy by your own actions.
The following steps will help you:



- Correct ventilation
  Briefly open windows Ⓐ fully, and at the same time close thermostatic radiator valves Ⓑ.
- Do not overheat
  Endeavour to reach a room temperature of 20 °C; every degree of room temperature reduction saves up to 6% of your heating bills.
- Close roller shutters (where installed) at dusk.
- Set thermostatic radiator valves Ⓑ correctly.
- Do not cover radiators Ⓒ or thermostatic radiator valves Ⓑ.
- Make full use of the setting options offered by control unit Ⓓ, e.g. "Standard room temperature" alternating with "Reduced room temperature".
- Set the DHW temperature of DHW cylinder Ⓔ at control unit Ⓓ
- Controlled DHW consumption:
  A shower generally uses less energy than a full bath.

5592 363 GB

Key word index

A
Actual temperatures, scanning, 12
Applicability, 42
Automatic mode, 20

B
Basic factory settings, 5, 7, 8
Boiler start-up, 15
Boiler shutdown, 16

C
Changing the clock, 7, 26
Changing the date, 7, 26
Changing the DHW temperature, 23
Changing the heating curve level, 28
Changing the heating times, 18
Cleaning tips, 38
Clock, changing, 7, 26
Commissioning, 15
Contrast settings, 8
Controls, 6, 7, 8
Controls, where to find them, 4
Control unit shutdown, 16

D
Danger, 2
Date, changing, 7, 26
Day temperature, 11
Deleting time phases, 19, 22
DHW circulation pump, 6, 17, 20
DHW cylinder, 38
DHW heating once, 13, 20
DHW production (automatic mode), 7, 17, 20
DHW temperature, changing, 23
DHW temperature, scanning, 12
Diagnosis, 32
Display elements, 7, 8
Display screen, 7, 8
Display window symbols, 8
Disposal, 38
Domestic hot water, 5, 7, 10
Drinking water filter, 38

E
Economy, 14, 24, 39
Economy mode "", 14
Emissions test switch, 6, 33
Energy saving, 14, 24, 39
Error (faults), 32

F
Fault correction, 33
Fault display, 6, 32
Fault message acknowledgement, 32
Fault messages, calling up, 33
Fault messages (what to do if ...), 32
Faults, 32
Flue gas smell, 2
Frost protection, 5, 10, 11

G
Gas shut-off valve, 2, 15, 16
Gas smell, 2

H
Heating and DHW, 5, 10
Heating characteristics, 28
Heating circuit selection, 9
Heating curve, 7, 28
Heating curve level, changing, 28
Heating curve slope, changing, 28
Heating DHW once, 13, 20
Heating program changeover, 31
Heating program selection, 10
Heating system pre-settings, 5
Heating system start-up/shutdown, 15, 16
Heating system shutdown, 16
Heating times, changing, 18
Holiday program selection, 24
Holidays, 24

5592 363 GB

Key word index (cont.)

I
Illuminated keys, 9
Index summary, 3
Individual time programs, 17, 20
Initial start-up, 15
Inspection, 37
Installation location, 2

K
Key illumination, 9

L
Lamps (diodes), 6, 15, 16, 32
Language selection, 27

M
Maintenance, 37
Maintenance display, 31
Maintenance contract, 37
Mains switch, 6, 15, 16

N
Night temperature, 11
Notice of completion, 2

O
ON/OFF lamp, 6, 15, 16
Operating conditions, scanning, 12

P
Party mode "", 13
Party temperature setting, 13
Pressure gauge, 15
Programming unit, 4
Program setting, 17

R
Reduced room temperature (night temperature), 5, 7, 11
Remote control, 4, 31
Renewed start-up, 15
Repairs, 37
Room temperature, changing, 11

S
Safety instructions, 2
Safety valve, 38
Scanning actual temperatures, 12
Scanning DHW temperature, 12
Scanning operating conditions, 12
Scanning temperatures and operating conditions, 12
Sensor error message, 32
Setting party temperature, 13
Setting programs, 17
Setting temperatures, 7, 11
Shutdown, 16
Smell of flue gas, 2
Special displays, 31
Standard mode, 5
Standard room temperature (day temperature), 5, 7, 11
Standby mode, 10, 24
Summer operation, 10
Switching the boiler off, 16
Switching the boiler on, 15
Switching times, 17
Symbols, display window, 8

T
Temperatures, scanning, 12
Temperatures, setting, 7, 11
Time phases, deleting, 19, 22
Time programs
- central heating, 5, 7, 17, 18
- DHW circulation pump, 7, 17, 20
- DHW heating 5, 7, 17, 20

W
What to do if ..., 31
Winter operation, 10
Work on the equipment, 2

5592 363 GB

Applicability

For heating systems with

Vitotronic 200, type KW2	**or**	**Vitotronic 300, type KW3**
Part no. 7450 750		Part no. 7450 760
7450 751,		7450 761,
7450 752,		7450 762,
7450 753		7450 763

Boiler and domestic hot water cylinder.

Your contact

Contact your local heating contractor for questions regarding maintenance and repairs of your heating system.
You may, for example, find local heating contractors under www.viessmann.de on the Internet.

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